

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 730033.409	APPLICATION NO. 09/441,411
INFORMATION DISCLOSURE STATEMENT (Use several copies if necessary)		APPLICANTS Nathalie B. Scholler et al.	
		FILING DATE November 16, 1999	GROUP ART UNIT 1633 1632

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AmB	AA	5,478,556	12/26/95	Elliott et al.	424	852	
AmB	AB	5,571,711	11/05/96	Van der Bruggen et al.	435	240.2	
AmB	AC	5,596,090	01/21/97	Hoke et al.	435	6	
AmB	AD	5,683,886	11/04/97	Van der Bruggen et al.	435	7.24	
	AE						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AmB	AF	EP 0668350A1	08/23/95	EPO	—	—		
AmB	AG	GB 2241703	9/11/91	United Kingdom	—	—		
AmB	AH	JP 9-75090	3/25/91	Japan (+ English Abstract)	—	—		X
AmB	AI	WO 96/11279	04/18/96	WIPO	—	—		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AmB	AJ	Adema et al., "Molecular Characterization of the Melanocyte Lineage-Specific Antigen gp100," <i>The Journal of Biological Chemistry</i> 269(31):20126-20133, 1994.
	AK	Banchereau, "Interleukin-4," in Angus W. Thomson (ed.), <i>The Cytokine Handbook</i> , Academic Press Limited, California, 1991, pp. 119-148.
	AL	Bargmann et al., "Multiple Independent Activations of the <i>neu</i> Oncogene by a Point Mutation Altering the Transmembrane Domain of p185," <i>Cell</i> 45:649-657, 1986.
	AM	Barnd et al., "Specific, Major Histocompatibility Complex-Unrestricted Recognition of Tumor-Associated Mucins by Human Cytotoxic T Cells," <i>Proc. Natl. Acad. Sci. USA</i> 86:7159-7163, 1989.
AmB	AN	Baselga et al., "Recombinant Humanized Anti-HER2 Antibody (Herceptin™) Enhances the Antitumor Activity of Paclitaxel and Doxorubicin Against HER2/ <i>neu</i> Overexpressing Human Breast Cancer Xenografts," <i>Cancer Research</i> 58:2825-2831, 1998.

EXAMINER Anne-Marie Baker	DATE CONSIDERED 12/30/00
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	BA						
	BB						
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AMB	BF	WO 96/40039	12/19/96	WIPO			
AMB	BG	WO 98/08947	03/05/98	WIPO			
	BH						
	BI						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
AMB	BJ	Bier et al., "Anti-(Epidermal Growth Factor) Receptor Monoclonal Antibodies for the Induction of Antibody-Dependent Cell-Mediated Cytotoxicity Against Squamous Cell Carcinoma Lines of the Head and Neck," <i>Cancer Immunol. Immunother.</i> 46:167-173, 1998.					
	BK	Borriello et al., "Differential Expression of Alternate mB7-2 Transcripts," <i>Journal of Immunology</i> 155(12):5490-5497, 1995.					
	BL	Buonavista et al., "DNA Immunization with a Combination of Rat Neu Antigen, CD86, and 4-1BB Ligand Results in the Generation of HER-2/neu (HER-2) Antigodies in Neu Transgenic Mice," <i>Cancer Gene Therapy</i> 5(6):S2, Abstract No. O-5, 1998.					
	BM	DeGrado et al., "Sequence and Structural Homologies Among Type I and Type II Interferons," <i>Nature</i> 300(25):379-381, 1982.					
AMB	BN	Disis et al., "Existent T-Cell and Antibody Immunity of HER-2/neu Protein in Patients with Breast Cancer," <i>Cancer Research</i> 54:16-20, 1991.					
EXAMINER <i>Amie Marie Baker</i>				DATE CONSIDERED <i>12/30/00</i>			
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(Use several sheets if necessary)

APPLICANTS

Nathalie B. Scholler et al.

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CA						

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ArnB	CC	Ehrenfeld and Semler, "Anatomy of the Poliovirus Internal Ribosome Entry Site," <i>Current Topics in Microbiology and Immunology</i> 203:66-83, 1995.
	CD	Emtage et al., "Enhanced Interleukin-2 Gene Transfer Immunotherapy of Breast Cancer by Coexpression of B7-1 and B7-2," <i>Journal of Interferon and Cytokine Research</i> 18(11):927-937, 1998.
	CE	Farrar and Schreiber, "The Molecular Cell Biology of Interferon- γ and Its Receptor," <i>Annu. Rev. Immunol.</i> 11:571-611, 1993.
	CF	Freeman et al., "B7, A New Member of the Ig Superfamily with Unique Expression on Activated and Neoplastic B Cells," <i>J. of Immunol.</i> 143(8):2714-1722, 1989.
	CG	Freeman et al., "Murine B7-2, an Alternative CTLA4 Counter-Receptor that Costimulates T Cell Proliferation and Interleukin 2 Production," <i>J. Exp. Med.</i> 178:2185-2192, 1993.
	CH	Freeman et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homologue of the Human B Lymphocyte Activation Antigen B7," <i>J. Exp. Med.</i> 174:625-631, 1991.
	CI	Gold and Freedman, "Demonstration of Tumor-Specific Antigens in Human Colonic Carcinomata by Immunological Tolerance and Absorption Techniques," <i>J. Exp. Med.</i> 121(3):439-462, plate 35-plate 39, 1965.
✓	CJ	Goodwin et al., "Molecular Cloning of a Ligand for the Inducible T Cell Gene 4-1BB: A Member of an Emerging Family of Cytokines with Homology to Tumor Necrosis Factor," <i>Eur. J. Immunol.</i> 23:2631-2641, 1993.
ArnB	CK	Gray et al., "Expression of Human Immune Interferon cDNA in <i>E. coli</i> and Monkey Cells," <i>Nature</i> 295:503-508, 1982.

EXAMINER

Anne L. Arie Baker

DATE CONSIDERED

12/30/00

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DA							
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DB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
AmB	DC	Greene et al., "Covalent Dimerization of CD28/CTLA-4 and Oligomerization of CD80/CD86 Regulate T Cell Costimulatory Interactions," <i>The Journal of Biological Chemistry</i> 271(43):26762-26771, 1996.					
	DD	Hellström and Hellström, "T Cell Immunity to Tumor Antigens," <i>Critical Reviews in Immunology</i> 18:1-6, 1998.					
	DE	Hoffman et al., "Antitumor Activity of Anti-Epidermal Growth Factor Receptor Monoclonal Antibodies and Cisplatin in Ten Human Head and Neck Squamous Cell Carcinoma Lines," <i>Anticancer Research</i> 17:4419-4426, 1997.					
	DF	June et al., "Role of the CD28 Receptor in T-Cell Activation," <i>Immunol. Today</i> 11:211-216, 1990.					
	DG	Kawakami et al., "Cloning of the Gene Coding for a Shared Human Melanoma Antigen Recognized by Autologous T Cells Infiltrating Into Tumour," <i>Proc. Nat. Acad. Sci. USA</i> 91:3515-3519, 1994.					
	DH	Keegan et al., "The Interleukin-4 Receptor: Signal Transduction by a Hematopoietin Receptor," <i>J. Leukocyt. Biol.</i> 55:272-279, 1994.					
	DI	Kim et al., "Development of a Multicomponent Candidate Vaccine for HIV-1," <i>Vaccine</i> 15(8):879-883, 1997.					
	DJ	Kwon and Weissman, "cDNA Sequences of Two Inducible T-Cell Genes," <i>Proc. Nat. Acad. Sci. USA</i> 86:1963-1967, 1989.					
AmB	DK	Li et al., "Costimulation by CD48 and B7-1 Induces Immunity Against Poorly Immunogenic Tumors," <i>J. Exp. Med.</i> 183:639-644, 1996.					
EXAMINER Arnette Marie Baker				DATE CONSIDERED 12/30/00			
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	EB						
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AmB	EC	Linsley et al., "CD28 Engagement by B7/BB-1 Induces Transient Down-Regulation of CD28 Synthesis and Prolonged Unresponsiveness to CD28 Signaling," <i>J. Immunol.</i> 150(8):3161-3169, 1993.					
	ED	Linsley et al., "Human B7-1 (CD80) and B7-2 (CD86) Bind with Similar Avidities but Distinct Kinetics to CD28 and CTLA-4 Receptors," <i>Immunity</i> 1:793-801, 1994.					
	EE	Liu, "Vaccine Developments," <i>Nature Medicine Vaccine Supplement</i> 4(5):515-519, 1998.					
	EF	Melero et al., "Amplification of Tumor Immunity by Gene Transfer of the Co-Stimulatory 4-1BB Ligand: Synergy with the CD28 Co-Stimulatory Pathway," <i>Eur. J. Immunol.</i> 28:1116-1121, 1998.					
	EG	Pardoll, "Cancer Vaccines," <i>Nature Medicine Vaccine Supplement</i> 4(5):525-531, 1998.					
	EH	Petit et al., "Neutralizing Antibodies Against Epidermal Growth Factor and ErbB-2/neu Receptor Tyrosine Kinases Down-Regulate Vascular Endothelial Growth Factor Production by Tumor Cells <i>In Vitro</i> and <i>In Vivo</i> ," <i>American Journal of Pathology</i> 151(6):1523-1530, 1997.					
	EI	Pietras et al., "Antibody to HER-2/neu Receptor Blocks DNA Repair After Cisplatin in Human Breast and Ovarian Cancer Cells," <i>Oncogene</i> 9:1829-1838, 1994.					
↓	EJ	Plowman et al., "Heregulin Induces Tyrosine Phosphorylation of HER4/p180 ^{erbB4} ," <i>Nature</i> 366:473-475, 1993.					
AmB	EK	Rees et al., "Bicistronic Vector for the Creation of Stable Mammalian Cell Lines that Predisposes All Antibiotic-Resistant Cells to Express Recombinant Protein," <i>Biotechniques</i> 20(1):102-109, 1996.					
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FB							
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AMB	FC	Reiter and Rapport, "Dual Effects of Cytokines in Regulation of MHC-Unrestricted Cell Mediated Cytotoxicity," <i>Crit. Rev. Immunol.</i> 13(1):1-34, 1993.					
	FD	Rinderknecht et al., "Natural Human Interferon- γ ," <i>J. Biol. Chem.</i> 259(11):6790-6797, 1984.					
	FE	Sugimoto et al., "Efficient Expression of Drug-Selectable Genes in Retroviral Vectors Under Control of an Internal Ribosome Entry Site," <i>Bio/Technology</i> 12:694-698, 1994.					
	FF	Topalian et al., "Human CD4+ T Cells Specifically Recognize a Shared Melanoma-Associated Antigen Encoded by the Tyrosine Gene," <i>Proc. Nat. Acad. Sci. USA</i> 91:9461-9465, 1994.					
	FG	Trowbridge and Omary, "Human Cell Surface Glycoprotein Related to Cell Proliferation is the Receptor for Transferrin," <i>Proc. Nat. Acad. USA</i> 78(5):3039-3043, 1981.					
	FH	Udayachander et al., "Anti-Tumor Activity of Monoclonal Antibody CIBCNSH3 Generated to the Human EGF Receptor," <i>Hum. Antibodies</i> 8 (2):60-64, 1997, abstract only.					
	FI	van den Bruggen et al., "A Gene Encoding an Antigen Recognized by Cytolytic T Lymphocytes on a Human Melanoma," <i>Science</i> 254:1643-1647, 1991.					
	FJ	Wang and Siddiqui, "Structure and Function of the Hepatitis C Virus Internal Ribosome Entry Site," <i>Curr. Top. Microbiol. Immunol</i> 203:99-115, 1995.					
AMB	FK	Weber et al., "Tumor Immunity and Autoimmunity Induced by Immunization with Homologous DNA," <i>J. Clin. Invest</i> 102:1258-1264, 1998.					
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GA							
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						YES	NO
GB							
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AMB	GC	Yoshino et al., "Association of HER2/neu Expression with Sensitivity to Tumor-Specific CTL in Human Ovarian Cancer," <i>J. Immunol.</i> 152:2393-2400, 1994.					
AMB	GD	Zitvogel et al., "Interleukin-12 and B7.1 Co-Stimulation Cooperate in the Induction of Effective Antitumor Immunity and Therapy of Established Tumors," <i>Eur. J. Immunol.</i> 26:1335-1341, 1996.					
	GE						
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